**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Pre-Algebra Study Guide**

**Unit 1 Test**

*Directions:* To aid you in your study process, use these practice problems to review and assess yourself on your knowledge of certain concepts. Solutions to the study guide will be reviewed in class.

**Order of Operations**

Simplify each expression

1. 27 - 16 + 3

2. 70 ÷ [5(3+4)]

3. 9 + 6[15 ÷ 3 + (11 – 5)]

4. 17 – 8 + 9 – 3 + 4

**Negative Integers on a Number Line**

5. On Monday the average temperature for -10F. On Tuesday it was -15F. On Wednesday it was -13F. On Thursday it was 0F.

a. Graph the temperatures on a number line

b. Write the days in order from coldest to warmest.

6. Define absolute value: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which has a greater absolute value: -9 or 5?

**Adding and Subtracting Integers**

7. – 12 + (-31) 8. 7 + (-18) 9. 19 + (-9)

10. -7 – 4 11. -62 – (-59) – 24 12. 9 – (-5)

**Coordinate Planes**

13. Graph the following points: (-1, 2), (-1, -4), (4,2), (4, -4)

Connect the points and then find the length, width, area, and perimeter of the shape that is formed.

**Length: \_\_\_\_\_\_\_\_\_\_\_\_ units**

**Width: \_\_\_\_\_\_\_\_\_\_\_\_ units**

**Area: \_\_\_\_\_\_\_\_\_\_\_\_ square units**

**Perimeter: \_\_\_\_\_\_\_\_\_\_\_\_ units**